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 1 [Rapid development of optimized DSP code from a high level](#)

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Alain Pegatoquet, Emmanuel Gresset, Michel Auguin, Luc Bianco

June 1999 DAC '99: Proceedings of the 36th ACM/IEEE conference on Design automation

Publisher: ACM

 Full text available: [pdf\(51.51 KB\)](#) Additional Information: full citation, references, cited by, index terms

Keywords: DSP, code generation, performance estimation

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 2 [There's more to a model than code: understanding and formalizing \*in silico\* modeling experience](#)


Janet Wiles, Nic Geard, James Watson, Kai Willadsen, John Mattick, Daniel Bradley, Jennifer Hallinan

June 2005 GECCO '05: Proceedings of the 2005 workshops on Genetic and evolutionary computation

Publisher: ACM

 Full text available: [pdf\(347.77 KB\)](#) Additional Information: full citation, abstract, references, index terms

Mapping biology into computation has both a domain specific aspect -- biological theory -- and a methodological aspect -- model development. Computational modelers have implicit knowledge that guides modeling in many ways but this knowledge is rarely ...

 Harness the  
computing power  
of GPUs C  
language  
development  
environment

 Keywords: *in silico* biology, artificial genomes, complex systems biology, complex systems modeling, complex systems patterns, design patterns, genetic regulatory networks, visualization
[NVIDIA.com](#)
 3 [Privacy, information technology, and health care](#)


Thomas C. Rindfleisch

August 1997 Communications of the ACM, Volume 40 Issue 8

Publisher: ACM

 Full text available: [pdf\(561.04 KB\)](#) Additional Information: full citation, references, cited by, index terms, review

4

[Practical analysis of stripped binary code](#)



Laune C. Harris, Barton P. Miller

December 2005 ACM SIGARCH Computer Architecture News, Volume 33  
Issue 5

Publisher: ACM

Full text available: pdf(224.79 KB)

Additional Information: full citation, abstract,  
references, index terms

Executable binary code is the authoritative source of information about program content and behavior. The compile, link, and optimize steps can cause a program's detailed execution behavior to differ substantially from its source code. Binary code analysis ...

## 5 [A study in coverage-driven test generation](#)

Mike Benjamin, Daniel Geist, Alan Hartman, Gerard Mas, Ralph Smeets,  
Yaron WolfsthalJune 1999 DAC '99: Proceedings of the 36th ACM/IEEE conference on  
Design automation

Publisher: ACM

Full text available: pdf(67.02 KB)

Additional Information: full citation, references, cited by,  
index terms

Keywords: formal models, functional verification, test generation,  
transition coverage

## 6 [Jacobian code generated by source transformation and vertex elimination can be as efficient as hand-coding](#)

Shaun A. Forth, Mohamed Tadjouddine, John D. Pryce, John K. Reid  
September 2004 ACM Transactions on Mathematical Software (TOMS).

Volume 30 Issue 3

Publisher: ACM

Full text available: pdf(262.49 KB)

Additional Information: full citation, abstract,  
references, cited by, index  
terms

This article presents the first extended set of results from EbiAD, a source-transformation implementation of the vertex-elimination Automatic Differentiation approach to calculating the Jacobians of functions defined by Fortran code (Griewank and Reese, ...

Keywords: Jacobian, source transformation, vertex elimination

## 7 [Information fusion for wireless sensor networks: Methods, models, and classifications](#)



Eduardo F. Nakamura, Antonio A. F. Loureiro, Alejandro C. Frery

September 2007 ACM Computing Surveys (CSUR). Volume 39 Issue 3

Publisher: ACM

Full text available: pdf(1.20 MB)

Additional Information: full citation, abstract, references,  
index terms

Wireless sensor networks produce a large amount of data that needs to be processed, delivered, and assessed according to the application objectives. The way these data are manipulated by the sensor nodes is a fundamental issue. Information fusion arises ...


Keywords: Information fusion, architectures and models, data  
aggregation, data fusion, wireless sensor networks

[Using bandwidth-space partitioning to improve cell coverage and near-far unfair access problem in a noise-limited CDMA cellular network](#)

Shih-Tsung Yang, Anthony Ephremides

July 2005 Wireless Networks, Volume 11 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(236.89 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper concerns CDMA cellular networks equipped with conventional matched filter receivers. For this type of cellular networks, two problems exist. One is the inverse relationship between the coverage and capacity, and the other one is the near-far ...


**Keywords:** CDMA, capacity, coverage, near-far

9 [Very-Large Scale Code Clone Analysis and Visualization of Open Source Programs Using Distributed CCFinder: D-CCFinder](#)

Simone Livieri, Yoshiki Higo, Makoto Matsushita, Katsuro Inoue

May 2007 ICSE '07: Proceedings of the 29th International Conference on Software Engineering

Publisher: IEEE Computer Society

Full text available:  [pdf\(840.69 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

The increasing performance-price ratio of computer hardware makes possible to explore a distributed approach at code clone analysis. This paper presents D-CCFinder, a distributed approach at large-scale code clone analysis. D-CCFinder has been implemented ...

10 [Construction of the planar partition postal code map based on cadastral reGIStration](#)




Friso Penninga, Edward Verbree, Wilko Quak, Peter van Oosterom

November 2003 GIS '03: Proceedings of the 11th ACM international

symposium on Advances in geographic information systems

Publisher: ACM

Full text available:  [pdf\(847.15 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

Accurate postal code maps could play an important role within GIS as the postal code has the potential to link the address description of buildings and their location in a certain global reference system. This relationship is possible in both directions: ...

**Keywords:** GIS, skeletonization, triangulation


11 [An ethics and security course for students in computer science and information technology](#)



Richard G. Epstein

March 2006 ACM SIGCSE Bulletin, Volume 38 Issue 1

Publisher: ACM

Full text available:  [pdf\(52.14 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This paper describes an undergraduate course in computer security that has a strong ethical component. Ethical and related security topics are interwoven. The emphasis is on the kind of research that computer scientists and information technologists ...

Keywords: curriculum issues, ethical/societal issues, ethics, pedagogy, security, student creativity

## 12 Query length impact on misuse detection in information retrieval



systems

Ling Ma, Nazli Goharian

March 2005 SAC '05: Proceedings of the 2005 ACM symposium on Applied computing

Publisher: ACM

Additional Information: full citation, abstract,

Full text available: pdf(153.64 KB)

references, cited by, index terms

Misuse is the abuse of privileges by an authorized user and is the second most common form of computer crime after viruses. Earlier we proposed a misuse detection approach for information retrieval systems that relied on relevance feedback. The central ...

Keywords: algorithms, experimentation, security, user profile

## 13 Classification of source code archives



Robert Kravetz, Secil Ugurel, C. Lee Giles

July 2003 SIGR '03: Proceedings of the 26th annual international ACM SIGR conference on Research and development in information retrieval

Publisher: ACM

Additional Information: full citation, abstract,

Full text available: pdf(67.08 KB)

references, cited by, index terms

The World Wide Web contains a number of source code archives. Programs are usually classified into various categories within the archive by hand. We report on experiments for automatic classification of source code into these categories. We examined ...

Keywords: SVM, classification, software reuse, source code archive

## 14 Database-aware test coverage monitoring



Gregory M. Kapfhammer, Mary Lou Soffa

February 2008 ISEC '08: Proceedings of the 1st conference on India software engineering conference

Publisher: ACM

Additional Information: full citation, abstract,

Full text available: pdf(511.76 KB)

references, index terms

Unlike traditional programs, a database-centric application interacts with a database that has a complex state and structure. Even though the database is an important component of modern software, there are few tools to support the testing of database-centric ...

Keywords: database application, test coverage monitoring

## 15 State coverage: a structural test adequacy criterion for behavior checking




Ken Koster, David Kao

September 2007 ESEC-FSE companion '07: The 6th Joint Meeting on European software engineering conference and the ACM

## SIGSOFT symposium on the foundations of software engineering: companion papers

Publisher: ACM

Full text available:  pdf(240.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a new language-independent, structural test adequacy criterion called state coverage. State coverage measures whether unit-level tests check the outputs and side effects of a program. State coverage differs in several respects from existing ...

**Keywords:** coverage, fault-based, mutation testing, state coverage, structural testing, test adequacy criteria, unit testing

16 [Question classification with support vector machines and error correcting codes](#)

Kadri Hacioglu, Wayne Ward

May 2003 NAACL '03: Proceedings of the 2003 Conference of the North American Chapter of the Association for Computational Linguistics on Human Language Technology: companion volume of the Proceedings of HLT-NAACL 2003 - short papers - Volume 2, Volume 2

Publisher: Association for Computational Linguistics

Full text available:  pdf(249.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)


In this paper we consider a machine learning technique for question classification. The goal is to replace our regular expression based classifier with a classifier that learns from a set of labeled questions. We have realized that an enormous amount ...

17 [Review of "Language modeling for information retrieval by W. Bruce Croft and John Lafferty." Kluwer Academic Publishers 2003](#)

Paul Thompson

March 2004 Computational Linguistics, Volume 30 Issue 1


Publisher: MIT Press

Full text available:  pdf(117.49 KB) Additional Information: [full citation](#), [index terms](#)18 [Redundancy and information leakage in fine-grained access control](#)

Govind Kabra, Ravishankar Ramamurthy, S. Sudarshan

June 2006 SIGMOD '06: Proceedings of the 2006 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available:  pdf(340.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The current SQL standard for access control is coarse grained, in that it grants access to all rows of a table or none. Fine-grained access control, which allows control of access at the granularity of individual rows, and to specific columns within ...

**Keywords:** fine-grained access control, information leakage, query optimization, redundancy

## 19

[Understanding and Aiding Code Evolution by Inferring Change](#)

Patterns

Miryung Kim

May 2007 I CSE COMPANION '07: Companion to the proceedings of the  
29th International Conference on Software Engineering

Publisher: IEEE Computer Society

Full text available:  pdf(76.60 KB) Additional Information: [full citation](#), [abstract](#),  
[references](#), [index terms](#)

Evolution continues to play an ever-increasing role in software engineering. Although changing a program is the core of software evolution, program change patterns have not been considered as a first class entity in most classic studies of software evolution. ...

20 A conceptual approach to information security in financial account aggregationManish Agrawal, Hemant Padmanabhan, Lokesh Pandey, H. R. Rao,  
Shambhu UpadhyayaMarch 2004 I CEC '04: Proceedings of the 6th international conference on  
Electronic commerce

Publisher: ACM





Full text available:  pdf(173.70 KB) Additional Information: [full citation](#), [abstract](#),  
[references](#)

An important dimension of mobile computing is the ubiquitous and location-independent availability of data. Aggregation is the ability to electronically access and display personal account information from disparate sources through a single identity. ...

Keyw ords: account service providers, aggregation, identity service providers, scraping

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